

NOTE: Use these buttons to print or save the form. DO NOT use the browser tool bar.

## Hazard Analysis and Control for Facility Work

Los Alamos National Laboratory

Laboratory Implementation Requirements LIR 402-10-01.7

Effective Date: December 19, 1997 (Revision Date September 10, 2002)

Mandatory Document



## ES&H Site Hazard and Control Form

**Instructions:** An authorized person designated by the FM is responsible for initial identification of environment, safety, and health (ES&H) site hazards associated with this work request. Identify hazards to which workers could be exposed at the work site. Circle a specific hazard if it is listed as an example or identify it in the blank space. Check any standard site controls. All questions must have a response.

|   |                  |   |                      |   |  |
|---|------------------|---|----------------------|---|--|
| <b>WR No.</b>   | <b>FMU</b><br>61 | <b>TA</b><br>3  | <b>Bldg.</b><br>1498 | <b>Room</b><br>Ver's  | <b>Other Location</b><br>TA-3, Bldg 132                      |
| <b>Environmental Impacts: Does the work involve</b>   |                  |   |                      | <b>Check Yes or No</b>  |  |
| Potential disturbance of a watercourse (river, creek, arroyo, canyon, draw, or wash) or water discharges?   |                  |   |                      | <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes<br>Contact RRES-WQH or designee                           |  |
| Air emissions?  |                  |   |                      | <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes<br>Contact RRES-MAQ or designee                           |  |
| Changes in existing waste streams or generation of hazardous waste?   |                  |   |                      | <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes<br>Contact RRES-SWRC or designee                          |  |
| New construction projects; modified construction plans; new or modified programs or processes; ground clearing; use of off-road vehicles; outside activities resulting in increased light or noise; change in an outside footprint; decommissioning, decontamination, or demolition. (Routine maintenance as defined in NEPA B.1.3 does not require a NEPA review.) |                  |   |                      | <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes *<br>ESH-ID # 02-0162 OR<br>Contact RRES-ECO or designee. |  |
| <b>Site Hazards</b>   |                  | <b>Hazard(s) present?</b>   |                      | <b>Check any standard site control(s)</b>   | <b>Specify existing or additional control(s)<sup>b</sup></b> |
| <b>Ionizing Radiation</b><br>Handling radioactive material, entering posted radiological areas, working near radiation-producing devices.   |                  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                      | <input type="checkbox"/> RWP<br><input type="checkbox"/> Posted area  |  |
| <b>Worker Exposure</b><br>Working near nonionizing radiation, noise, chemicals, hazardous biological materials, lead, asbestos, temperature/humidity extremes, or high explosives?  |                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                      | <input type="checkbox"/> Follow entry posting <sup>c</sup>  | Possible silica, keep wet when scraping or removing scale    |
| <b>Energized and Operative Systems</b><br>Working near energized electrical parts, unlisted or unapproved electrical equipment, or explosive materials; working near unprotected belts, pulleys, chains, or rotating equipment; fuel-fired equipment other than vehicles; or spark- or flame-producing operations?  |                  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                      | <input type="checkbox"/> Mitigation addressed by work provider<br><input type="checkbox"/> Spark and flame permit             |  |
| <b>Elevated Work Surfaces</b><br>Unprotected structures or work surfaces elevated by more than 6 feet?  |                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                      | <input checked="" type="checkbox"/> Mitigation addressed by work provider   | Addressed in Contractors' AHA                                |
| <b>Confined Spaces</b><br>Entry into tanks, manholes, cooling towers, sumps?  |                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                      | <input type="checkbox"/> Mitigation addressed by work provider  | Bottom Cooling Tower Pit<br>Requires Confined Space Permit   |

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## ES&H Site Hazard and Control Form (Continued)

| Site Hazards  | Hazard(s) present?  | Check any standard site control(s)   | Specify existing or additional control(s) <sup>a</sup> |
|---|---|--|--|
| <input type="checkbox"/> Indoor excavation<br><input checked="" type="checkbox"/> Outdoor excavation<br><input type="checkbox"/> Soil disturbance   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | HSR-3 contacted<br><input type="checkbox"/> Yes <input type="checkbox"/> No<br>If yes, an HSR-3 Excavation/Soil Disturbance Permit has been<br><input type="checkbox"/> initiated, or<br><input type="checkbox"/> assigned the following EX-ID#<br><input type="checkbox"/> Mitigation addressed by work provider                                  |  |
| <input type="checkbox"/> Ceiling penetration<br><input checked="" type="checkbox"/> Floor penetration<br><input type="checkbox"/> Wall penetration<br>Description of penetration(s) (if not described in Task Description): | <input type="checkbox"/> Yes <input type="checkbox"/> No            | <input type="checkbox"/> Class 1 Penetration (less than 1½ inches) <sup>d</sup><br><input checked="" type="checkbox"/> Class 2 Penetration (greater than 1½ inches, formerly called complex penetration)<br>LANL Penetration Permit (LIR 402-880-02, Attachment A) is required for Class 2; must be attached for ticket to be released and worked. | Penetration Permit required                            |
| Other (describe)  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |  |  |
| Special training, escort, or access requirements (Describe)<br>(Form continued on next page)  |   |  | <input type="checkbox"/> HE Hazard briefing            |
| <b>Authorized Person</b> <u>W. ALAN GIBSON</u> <u>[Signature]</u> <u>10/22/02</u><br>Name (print) Signature Date  |   |  |  |
| <b>Qualified Person (if required)</b> <u>[Signature]</u> <u>B. Kochler</u> <u>10/24/02</u><br>Name (print) Signature Date   |   |  |  |

- If Yes is checked, the ESH-ID number must be filled in.
- Qualified person only (Use continuation form [Form 1692-B] if necessary).
- For work that does not involve direct exposure to chemicals. Occupants must clear immediate work area of chemicals.
- Penetration** – an opening made by drilling, cutting, or otherwise piercing a wall, ceiling, or floor. This does not include placement of thumbtacks, picture nails, or similar items in a hollow wall or ceiling that do not go beyond the thickness of the sheet rock.  
**Class 1 Penetration** – Any penetration that is made into hollow walls, hollow ceilings, or hollow floors, or a penetration into solid materials to a depth of 1½ inches or less.  
**Class 2 Penetration** – A penetration that is deeper than 1½ inches or is all the way through a solid material.

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**ES&H Site Hazard and Control Continuation Form**[illegible]